CLAIMS

What is claimed is:

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- 1. A method for producing a cream cheese product having significantly reduced levels of casein, said method comprising:
- (i) preparing an aqueous suspension having a protein concentration of about 5 to about 20 percent from water and a whey protein concentrate;

adjusting the pH of the aqueous suspension, if necessary, to a pH of about 7 to about 9: and

heating the aqueous suspension in a single heat treatment step to a temperature of about 70 to about 95°C for a time sufficient to obtain a polymerized whey protein having about 30 to about 85 percent disulfide crosslinking; and

optionally cooling the aqueous suspension containing the polymerized whey protein; and

- (ii) mixing at least a portion of the aqueous suspension containing the polymerized whey protein from (i), water, and milkfat to obtain a mixture;
- (iii) heating the mixture to a temperature of about 55 to about 75°C to liquify the milkfat;
- (iv) homogenizing the mixture from (iii) at about 1,500 psi to about 5,000 psi to form a homogenized mixture;
 - (v) optionally pasteurizing the homogenized mixture;
- (vi) cooling the homogenized or optionally pasteurized mixture to approximately ambient temperature;
- (vii) inoculating the mixture with a lactic culture and fermenting the inoculated mixture to obtain a fermented mixture;
- (viii) mixing a stabilizer and optionally a salt with the fermented mixture and cooking at a temperature of about 70 to about 105°C to obtain a cooked material; and
- (ix) homogenizing the cooked material to obtain the cream cheese product having significantly reduced levels of casein.

- 2. The method according to claim 1, wherein cream cheese product has essentially no casein.
- 3. The method according to claim 2, wherein the protein concentration of the aqueous suspension is about 5 to about 6 percent.
- 4. The method according to claim 3, wherein the pH of the aqueous suspension is about 7.2 to about 8.0.

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- 5. The method according to claim 4, wherein mixture in step (iv) is homogenized at about 3,000 psi to about 5,000 psi.
- 6. The method according to claim 5, wherein the aqueous suspension in step (i) is heated for about 10 minutes to about 60 minutes.
 - 7. The method according to claim 2, wherein the stabilizer is selected from the group consisting of food grade hydrocolloids and texture modifiers.
 - 8. The method according to claim 7, wherein the food grade hydrocolloids are gums, starches, or maltodextrins, and texture modifiers are emulsifiers.
 - 9. The method according to claim 1, wherein the temperature in step (viii) is about 80 to 95°C.
 - 10. The method according to claim 1, wherein the cooking in step (viii) is conducted for about 5 to 60 minutes.
 - 11. The method according to claim 10, wherein the cooking in step (viii) is conducted for about 10 to about 30 minutes.

- 12. The method according to claim 1, wherein a salt is added in step (viii).
- 13. The method according to claim 12, wherein the salt is selected from the group consisting of sodium chloride and potassium chloride.
- 14. The method according to claim 1, wherein the homogenizing in step (ix) is conducted at a pressure of about 1,500 to about 5,000 psi.

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- 15. The method according to claim 14, wherein the homogenizing in step (ix) is about 2500 to about 3000 psi.
- 16. The method according to claim 2, wherein the stabilizer is selectedfrom the group consisting of food grade hydrocolloids and texture modifiers.
 - 17. The method according to claim 16, wherein the food grade hydrocolloids are gums, starches, or maltodextrins, and texture modifiers are emulsifiers.
 - 18. A cream cheese product having significantly reduced levels of casein, said cream cheese product being obtained by a method comprising:
 - (i) preparing an aqueous suspension having a protein concentration of about 5 to about 20 percent from water and a whey protein concentrate;

adjusting the pH of the aqueous suspension, if necessary, to a pH of about 7 to about 9; and

heating the aqueous suspension in a single heat treatment step to a temperature of about 70 to about 95°C for a time sufficient to obtain a polymerized whey protein having about 30 to about 85 percent disulfide crosslinking; and

optionally cooling the aqueous suspension containing the polymerized whey protein; and

- (ii) mixing at least a portion of the aqueous suspension containing the polymerized whey protein from (i), water, and milkfat to obtain a mixture;
- (iii) heating the mixture to a temperature of about 55 to about 75°C to liquify the milkfat;
- (iv) homogenizing the mixture from (iii) at about 1,500 psi to about 5,000 psi to form a homogenized mixture;
 - (v) optionally pasteurizing the homogenized mixture;

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- (vi) cooling the homogenized or optionally pasteurized mixture to approximately ambient temperature;
- (vii) inoculating the mixture with a lactic culture and fermenting the inoculated mixture to obtain a fermented mixture;
- (viii) mixing a stabilizer and optionally a salt with the fermented mixture and cooking at a temperature of about 70 to about 105°C to obtain a cooked material; and
- 15 (ix) homogenizing the cooked material to obtain the cream cheese product having significantly reduced levels of casein.